

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In re application of:** Connors *et al.*

**Application No.** 10/510,249

**Filed:** April 11, 2005

**Confirmation No.** 7549

**For:** IDENTIFICATION AND  
CHARACTERIZATION OF AN  
ANTHOCYANIN MUTANT (ANT1) IN  
TOMATO

**FILED VIA EFS  
ON AUGUST 10, 2006**

**Examiner:** Georgia L. Helmer

**Art Unit:** 1638

**Attorney Reference No.** 6616-72731-15

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  
PURSUANT TO 37 C.F.R. § 1.97(b)(3)**

Listed on the accompanying form PTO-1449 are twenty-five (25) English-language documents (of which fifteen (15) are submitted herewith). Applicants respectfully request that these documents be listed as references cited on the issued patent.

Copies of United States patents and United States published patent applications do not have to be provided to the Patent Office (37 C.F.R. 1.98(a)(2)(ii)). Copies of unpublished U.S. applications do not have to be provided, as long as the application is available on PAIR, as this requirement of 37 C.F.R. § 1.98(a)(2)(iii) has been waived by the United States Patent and Trademark Office pursuant to the Official Gazette Notice on October 19, 2004 (1287 OG 163). Applicants will provide copies of such patents or applications upon request.

Applicants filed this Information Disclosure Statement (“IDS”) before the mailing date of a first Office action on the merits. As a result, no fee should be required to file this IDS.

However, if the Patent Office determines that a fee is required for Applicants to file this IDS, please charge any such fees, or credit overpayment, to Deposit Account No. 02-4550.

The filing of this IDS shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in 37 C.F.R. §1.56.

Respectfully submitted,

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<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Attorney Docket Number	6616-72731-15
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	Filing Date	April 11, 2005
	First Named Inventor	Connors
	Art Unit	1638
	Examiner Name	Georgia L. Helmer

**U.S. PATENT DOCUMENTS**

Copies of U.S. Patent documents do not need to be provided, unless requested by the Patent and Trademark Office. For patents, provide the patent number and the issue date. For published U.S. applications, provide the publication number and the publication date. For unpublished pending patent applications, provide the application number and the filing date.

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
		5,349,125	September 20, 1994	Holton <i>et al.</i>
		5,569,832	October 29, 1996	Holton <i>et al.</i>
		5,733,759	March 31, 1998	Taylor <i>et al.</i>
		5,831,060	November 3, 1998	Wada <i>et al.</i>
		5,859,329	January 12, 1999	Holton <i>et al.</i>
		5,861,487	January 19, 1999	Holton <i>et al.</i>
		6,054,636	April 25, 2000	Fader
		US 2002-0133848	September 19, 2002	Connors <i>et al.</i>
		US 2003-0226174	December 4, 2003	Connors <i>et al.</i>
		6,608,246	August 19, 2005	Bovy <i>et al.</i>

Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS
		BOVY <i>et al.</i> , "High-Flavonol Tomatoes Resulting from the Heterologous Expression of the Maize Transcription Factor Genes LC and C1," <i>The Plant Cell</i> , 14:2509-2526, 2002.
		BOWIE <i>et al.</i> , "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," <i>Science</i> , 247(4948):1306-1310, 1990.
		BROUN <i>et al.</i> , "Catalytic Plasticity of Fatty Acid Modification Enzymes Underlying Chemical Diversity of Plant Lipids," <i>Science</i> , 282(5392):1315-1317, 1998.
		CONE <i>et al.</i> , "Cloned Anthocyanin Genes and Their Regulation," <i>The Maize Handbook</i> , Freeling <i>et al.</i> , Springer-Verlag, New York, pages 282-285, 1994.

EXAMINER SIGNATURE:	DATE CONSIDERED:
* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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		DEBEAUJON <i>et al.</i> , "The TRANSPARENT TESTA12 Gene of Arabidopsis Encodes a Multidrug Secondary Transporter-like Protein Required for Flavonoid Sequestration in Vacuoles of the Seed Coat Endothelium," <i>The Plant Cell</i> , 13:853-871, 2000.
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		DONG, X., "Functional Conservation of Plant Secondary Metabolic Enzymes Revealed by Complementation of Arabidopsis Flavonoid Mutants with Maize Genes," <i>Plant Physiology</i> , 127:46-57, 2001.
		FOURGOUX-NICOL <i>et al.</i> , "Isolation of rapeseed genes expressed early and specifically during development of the male gametophyte," <i>Plant Molecular Biology</i> , 40(5):857-872, 1999.
		ISLAM, M., "Anthocyanin Compositions in Sweetpotato ( <i>Ipomoea batatas</i> L.) Leaves," <i>Biosci. Biotechnol. Biochem.</i> , 66(11):2483-2486, 2002.
		LIU <i>et al.</i> "Bottlenecks for metabolic engineering of isoflavone glycoconjugates in <i>Arabidopsis</i> ," <i>PNAS</i> , 99(22):14578-14583, 2002.
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		QUATTROCCHIO <i>et al.</i> , "Molecular Analysis of the anthocyanin2 Gene of Petunia and Its Role in the Evolution of Flower Color," <i>The Plant Cell</i> , 11:1433-1444, 1999.
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		VERPOORTE and MEMELINK, "Engineering secondary metabolite production plants," <i>Current Opinion in Biotechnology</i> , 13(2):181-187, 2002.

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